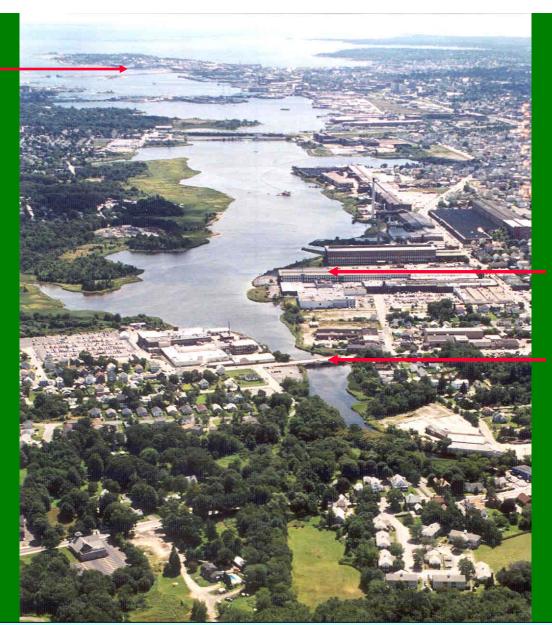
Outer Harbor Pilot Cap New Bedford Harbor Superfund Site Cornell-Dubilier I. Overview of the harbor cleanup II. The pilot underwater capping project III. Post-cap monitoring to date Aerovox 🗾

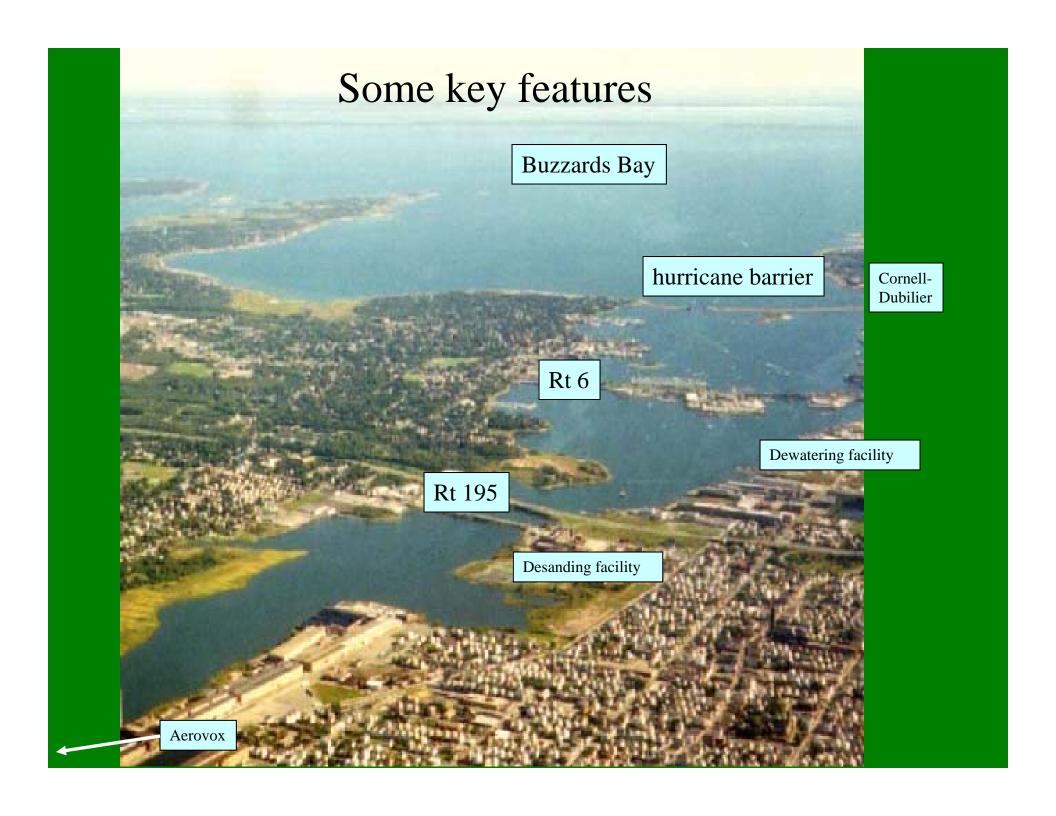
Cornell-Dubilier

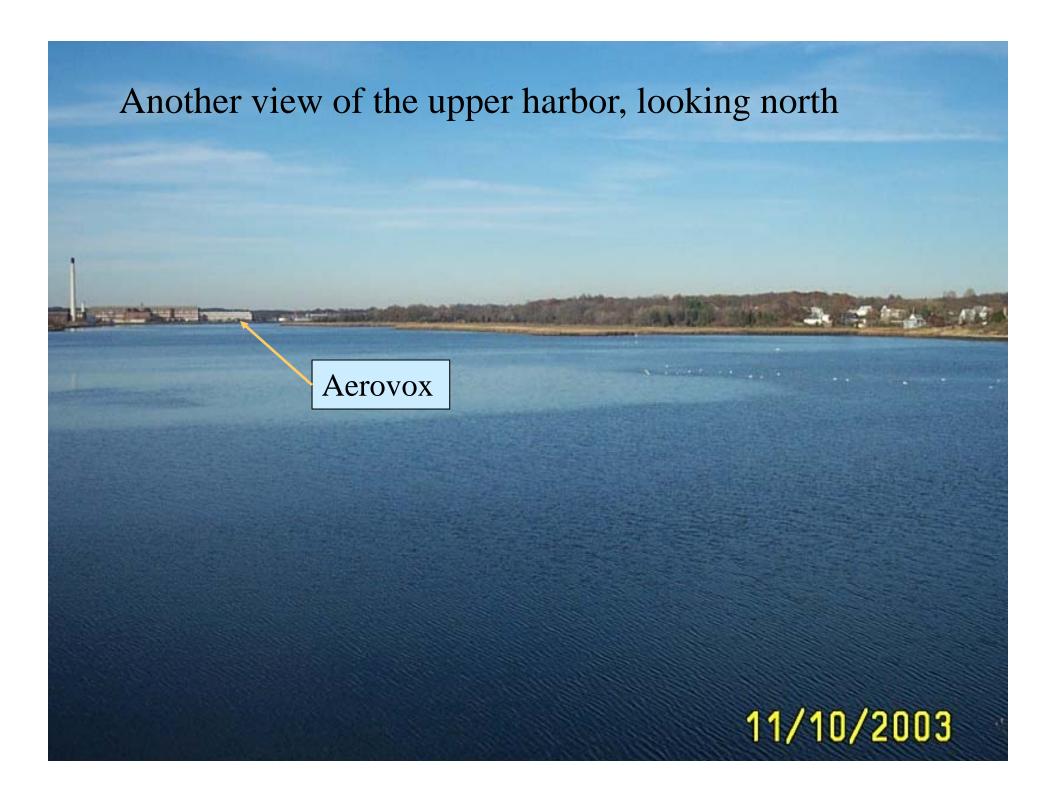


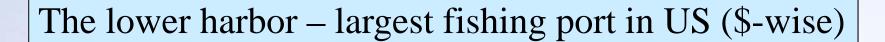
Aerovox

Wood St bridge

Another view of the harbor - looking south





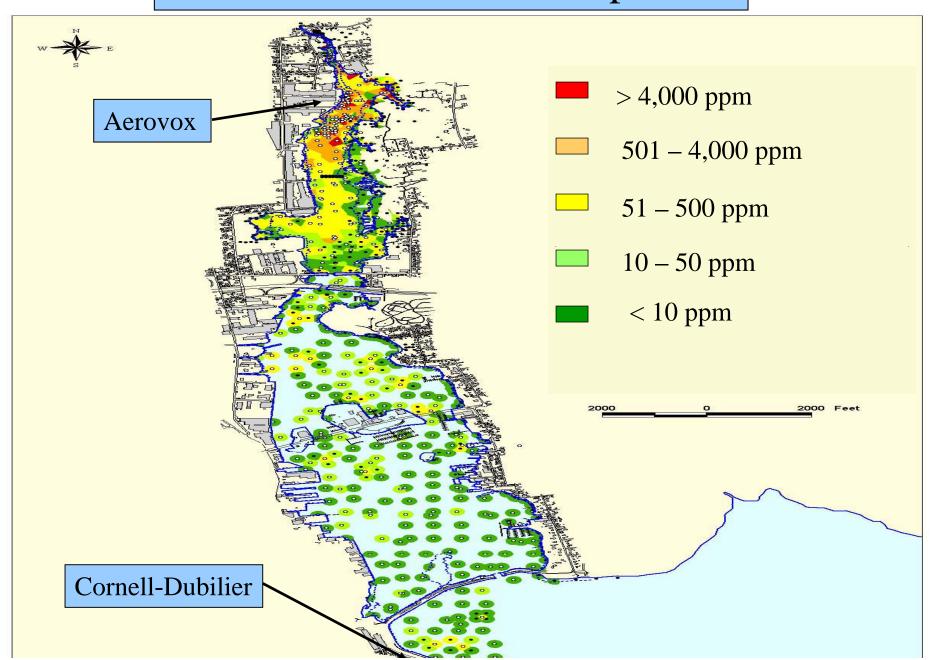




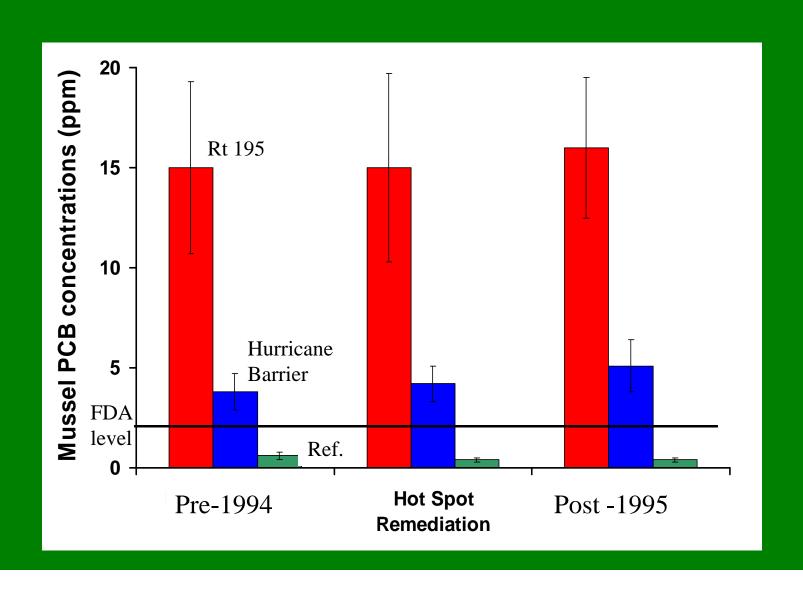


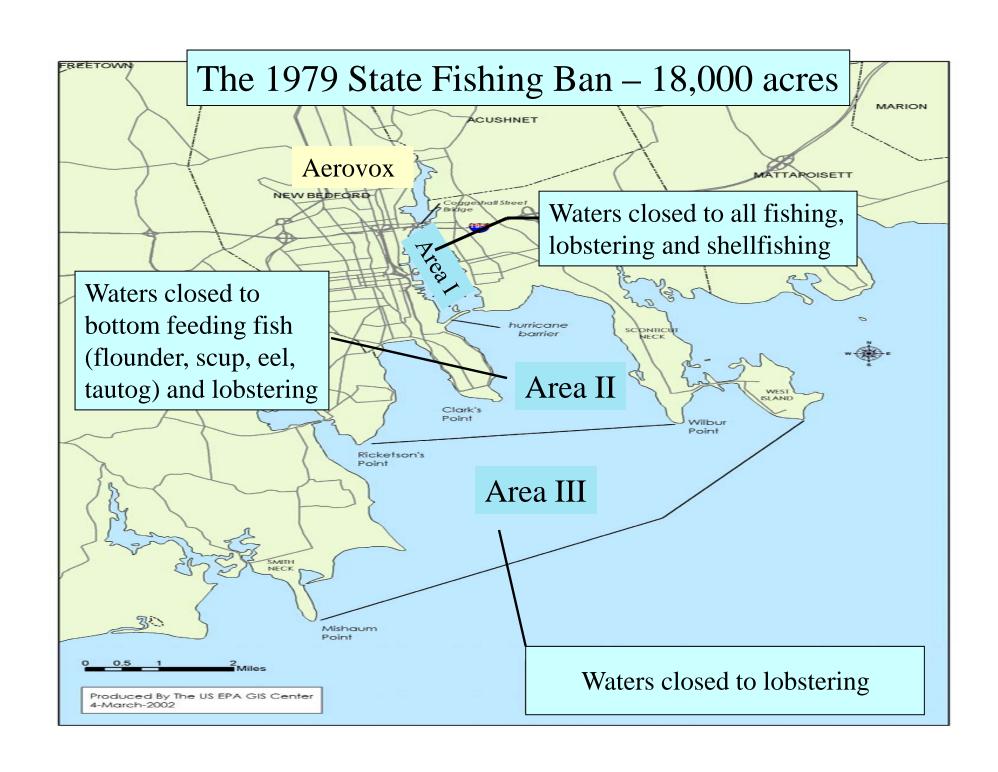
PCBs in sediment – top foot

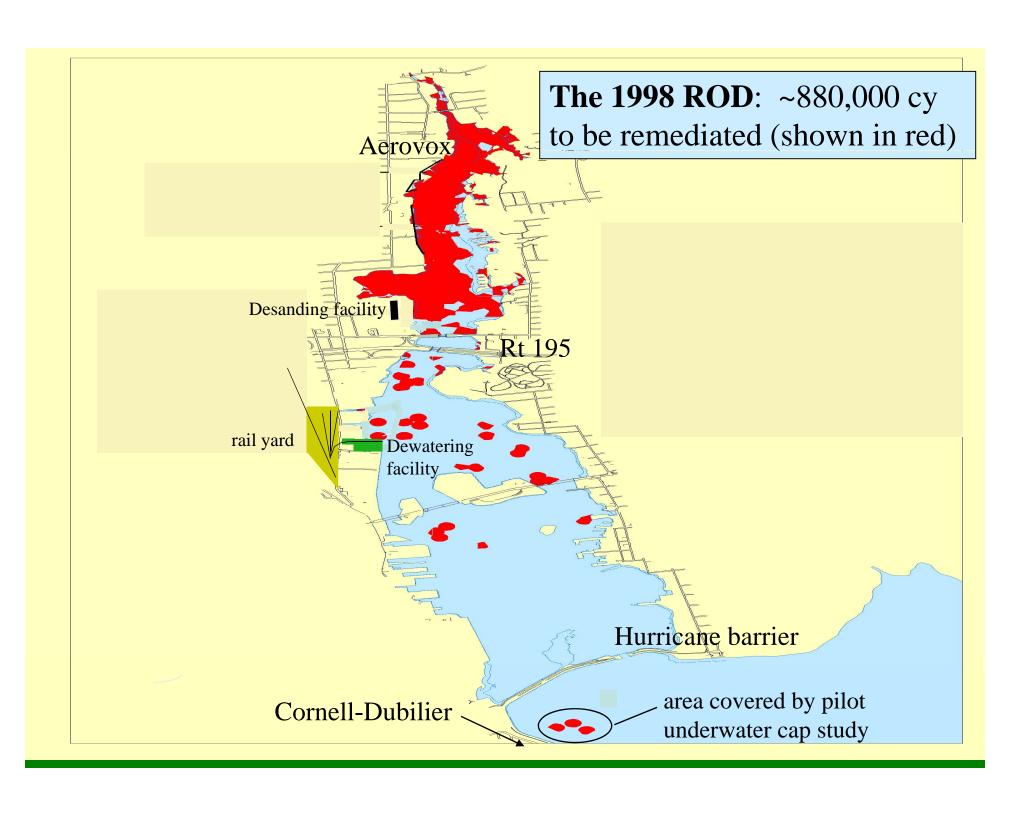




PCBs in Blue Mussels - Above FDA







Sediment cleanup levels in the 1998 ou1 ROD:

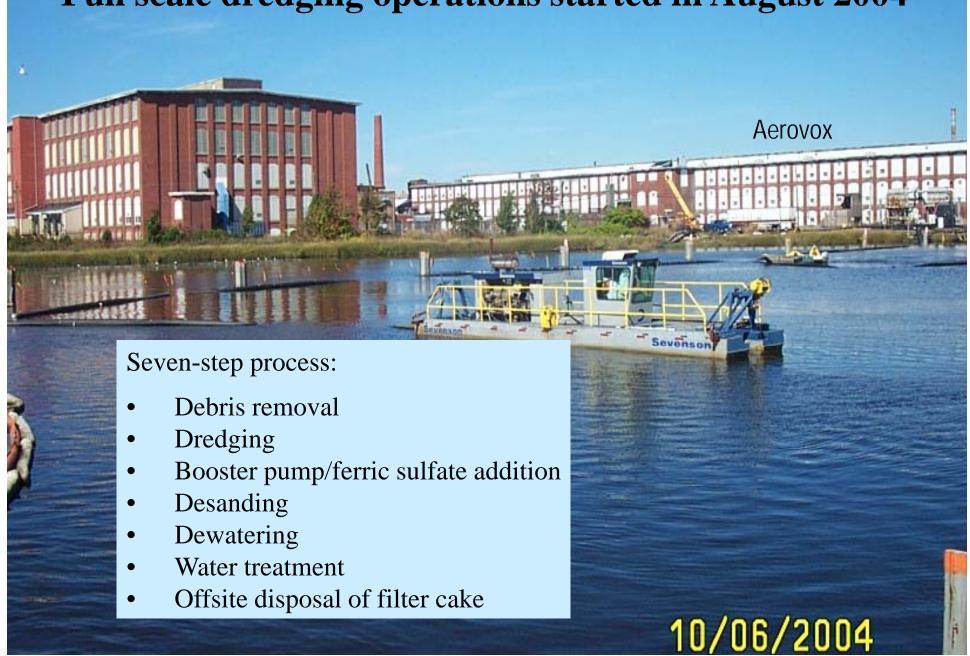
Dependent on area and land use:

- 10 ppm upper harbor, subtidal and mudflats
- 50 ppm lower harbor, subtidal and mudflats
- 1 ppm residential intertidal zone
- 25 ppm recreational intertidal zone
- 50 ppm saltmarsh, upper & lower harbor (with no public access)

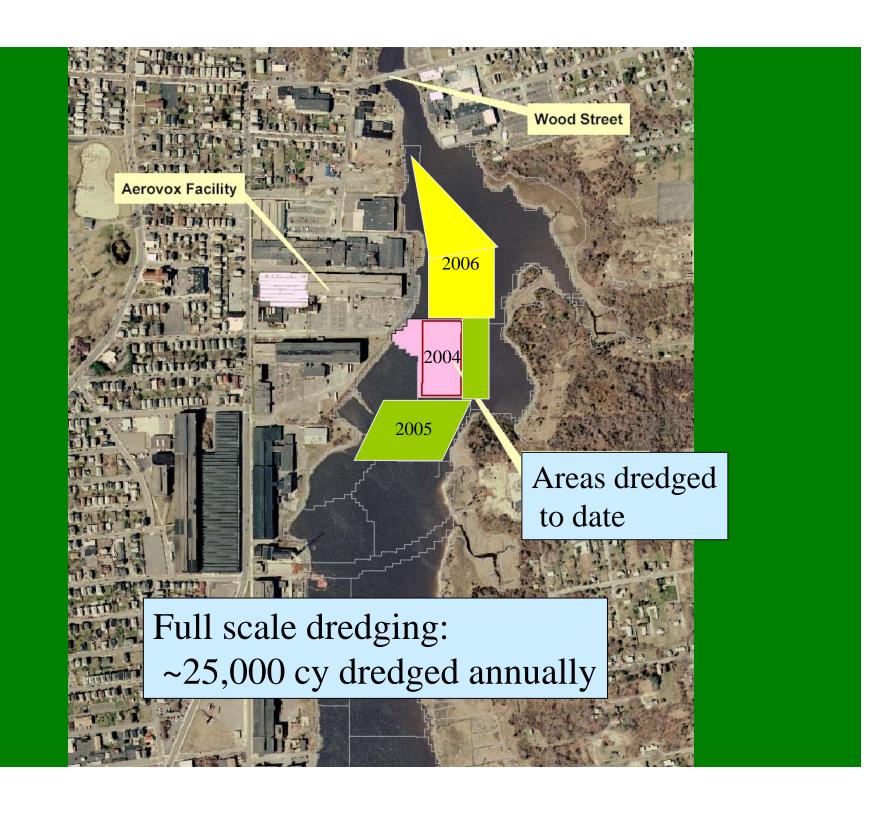








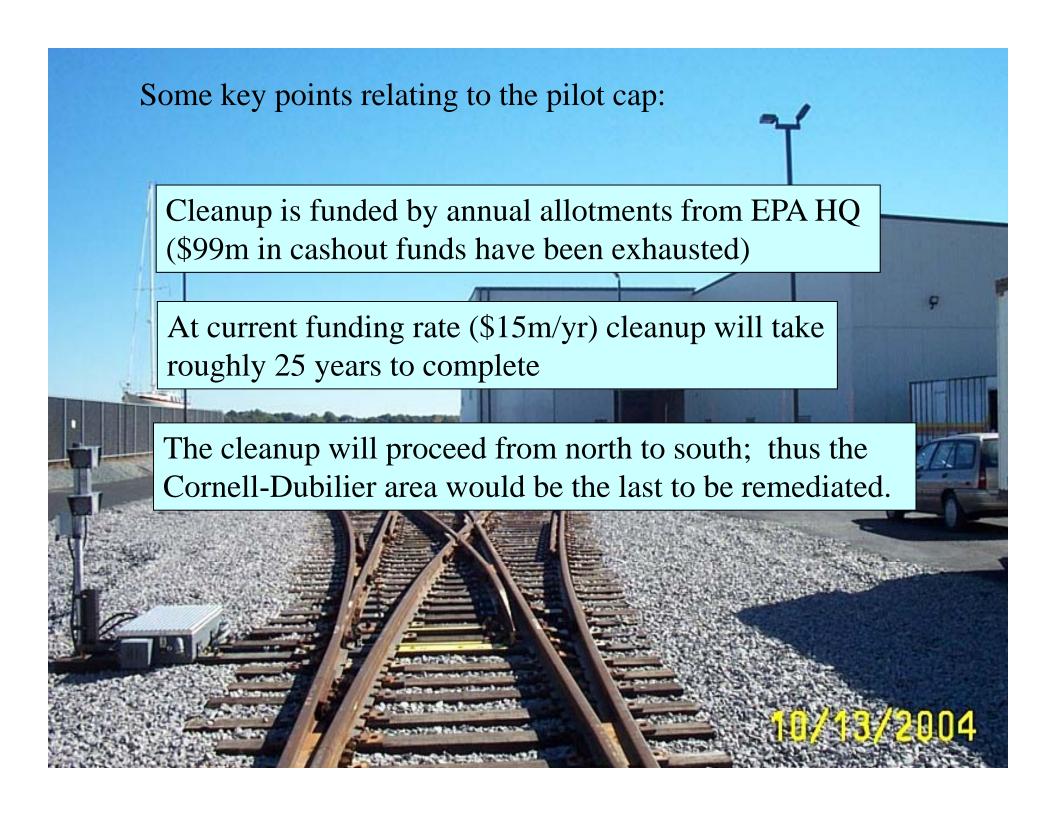


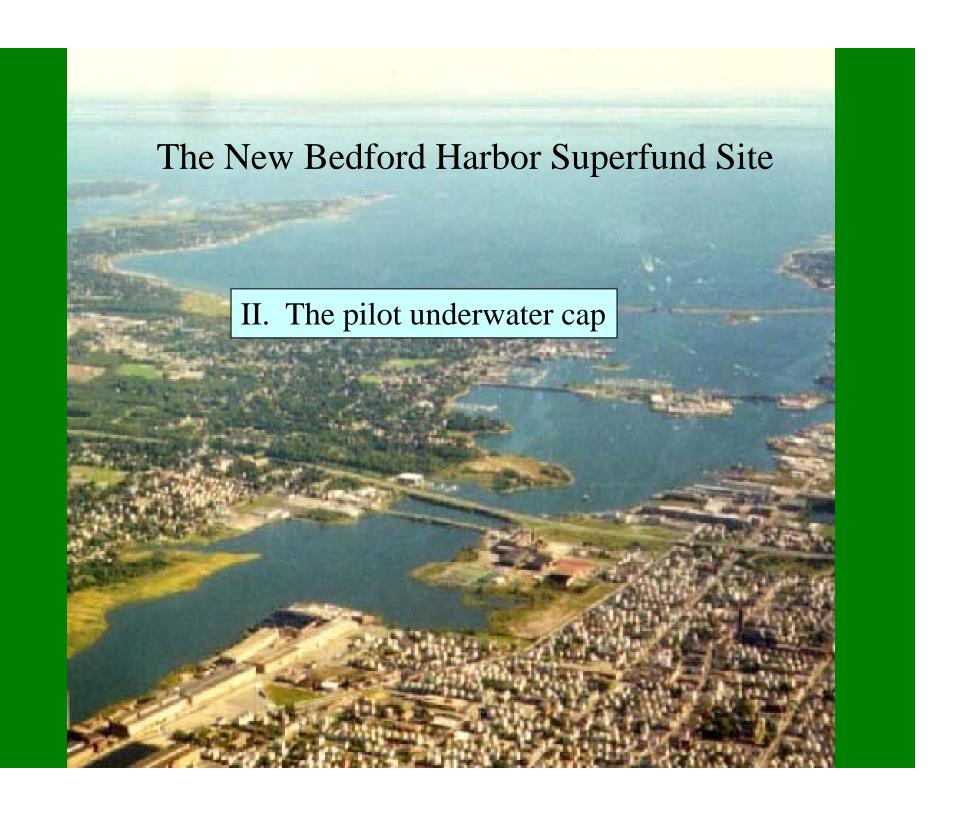


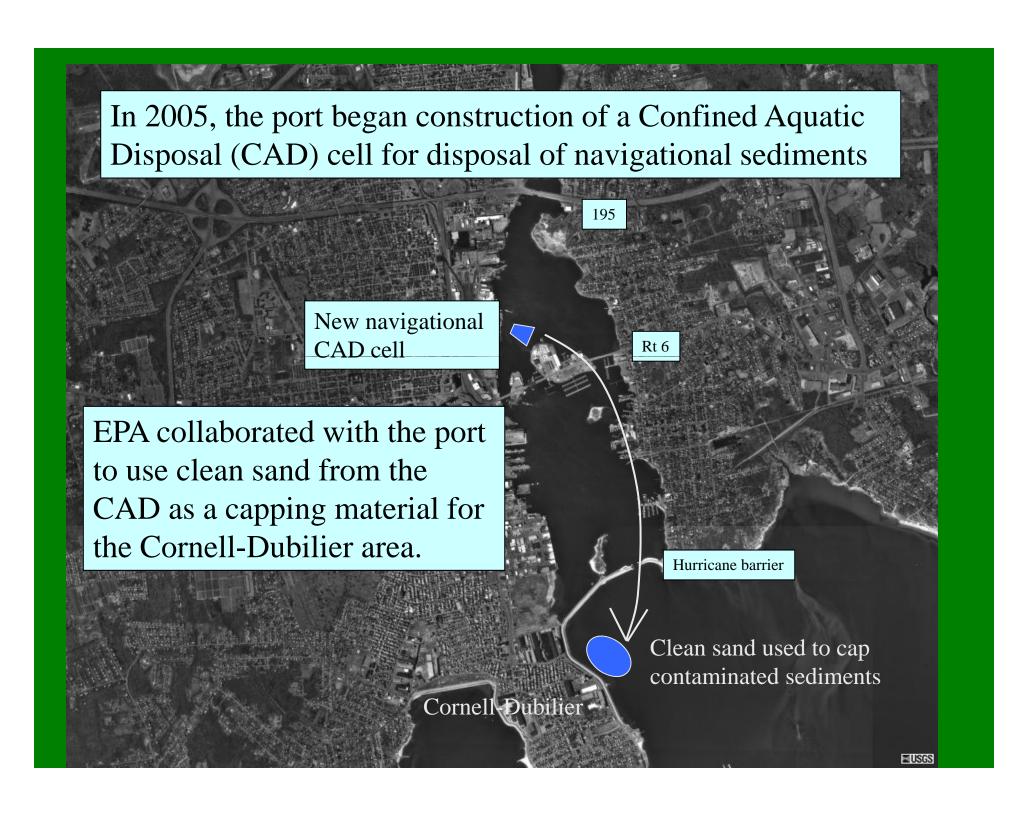


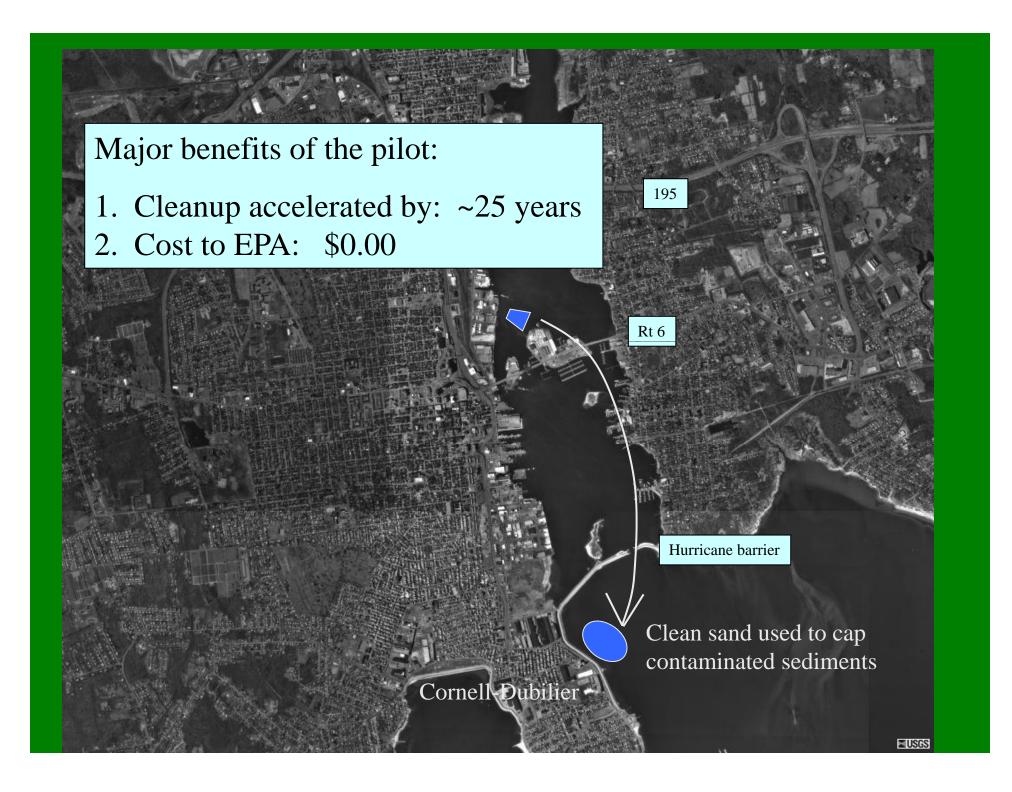




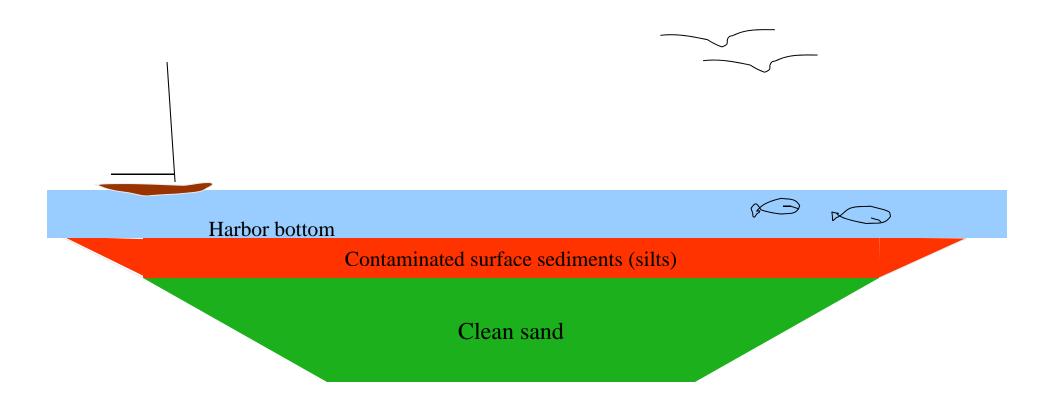




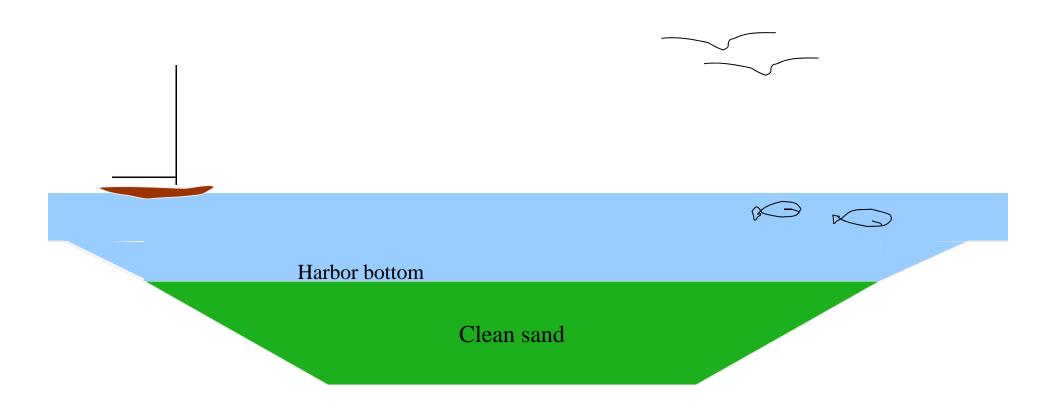




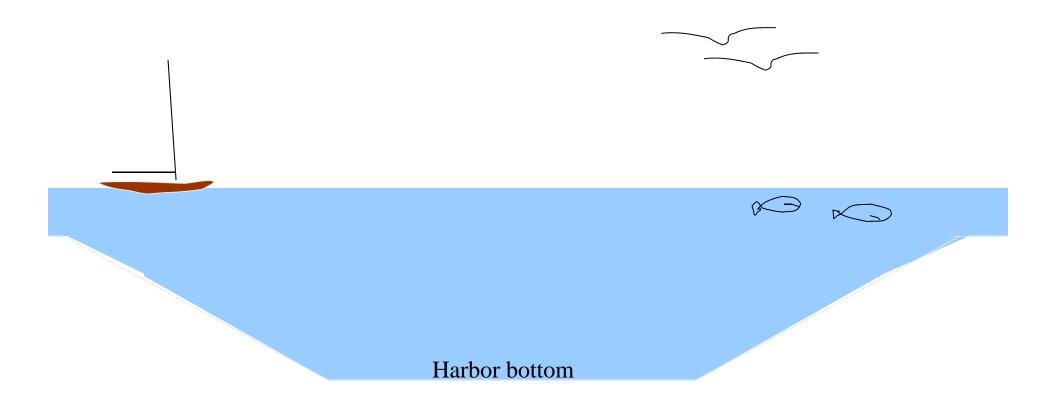
Next: a series of slides used at public meetings to explain what a CAD is and how it is constructed...



As is: New Bedford Harbor



Step 1: the contaminated surface sediments are removed

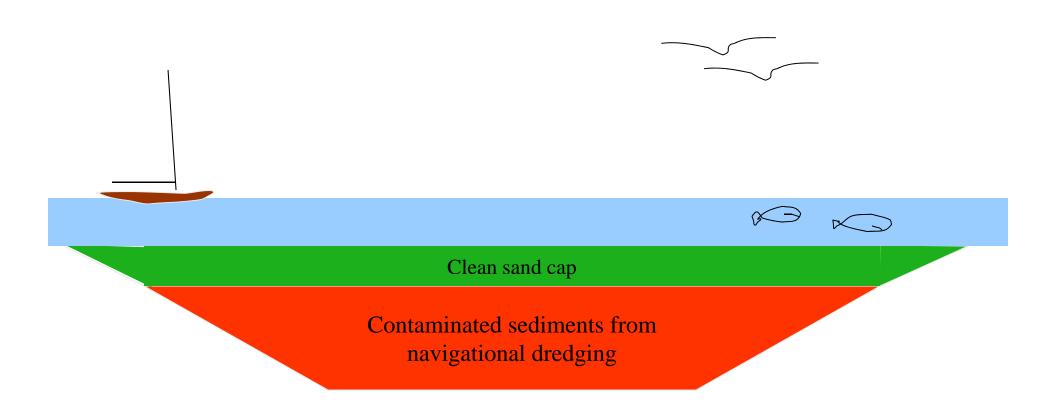


Step 2: the underlying clean sand is removed

Note: this is the material used for the pilot cap

Contaminated sediments from navigational dredging

Step 3: the CAD is filled with contaminated sediments from <u>navigational</u> dredging.



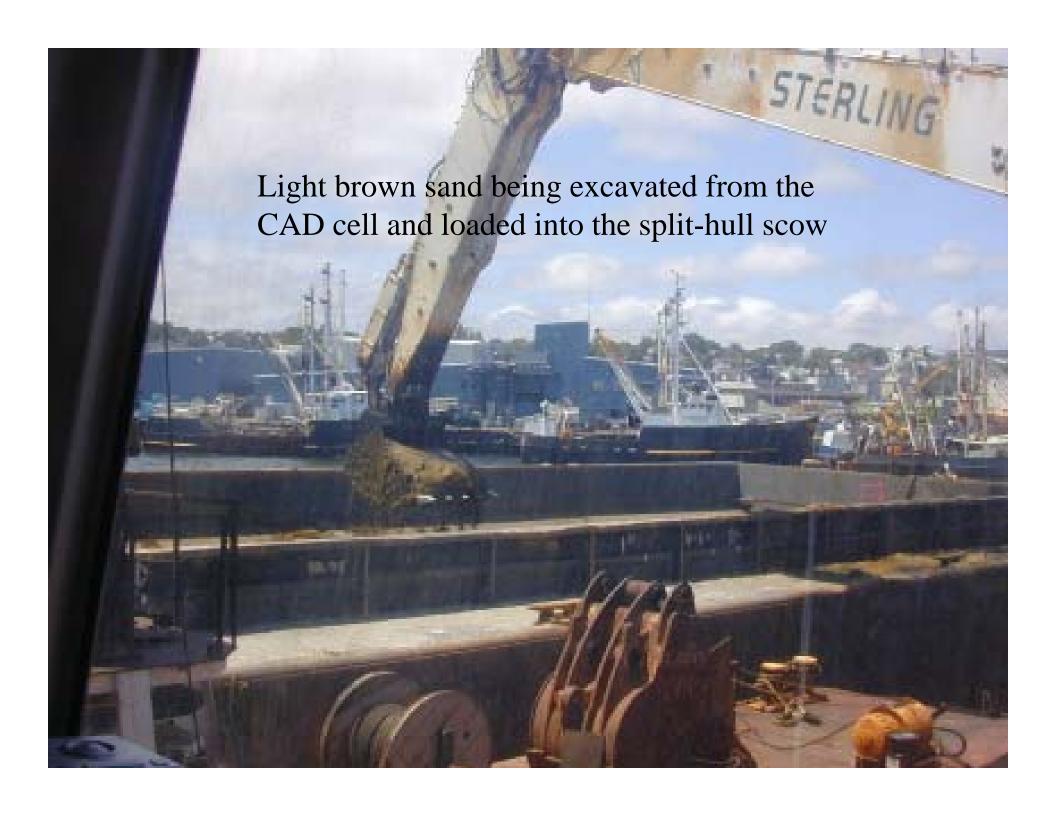
Step 4: clean sand is placed as a final cap.

So...a flip flop:

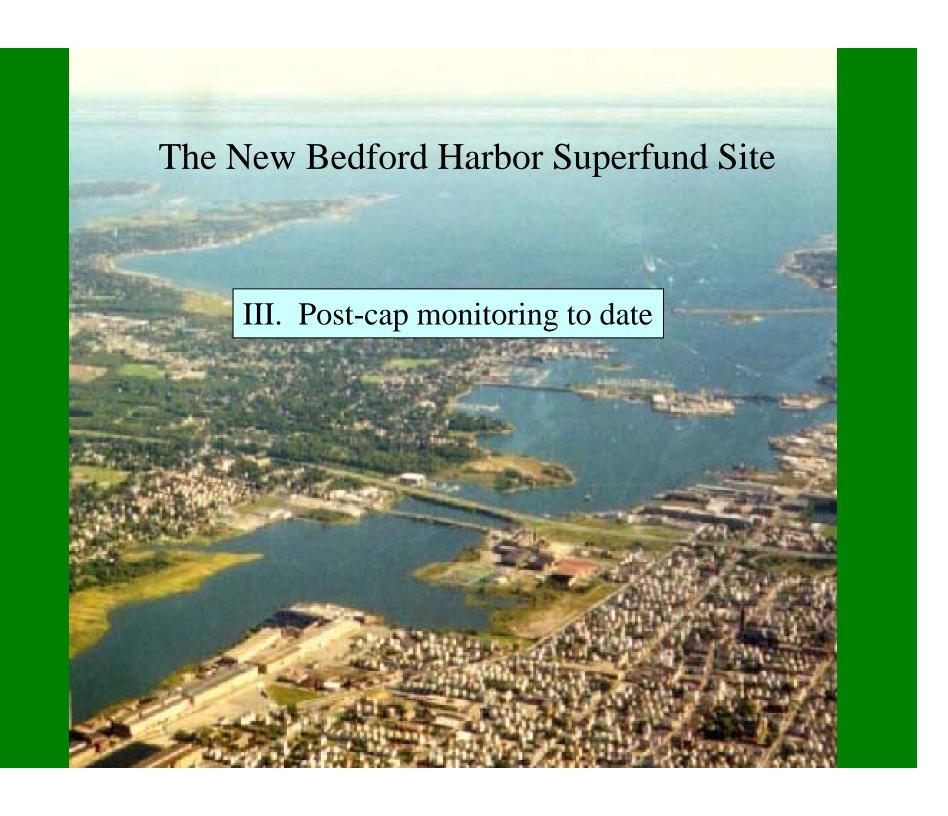


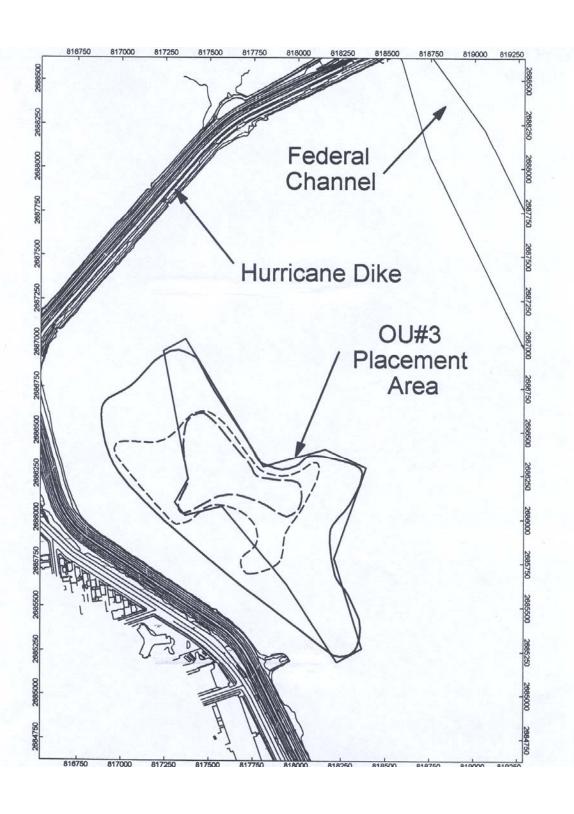




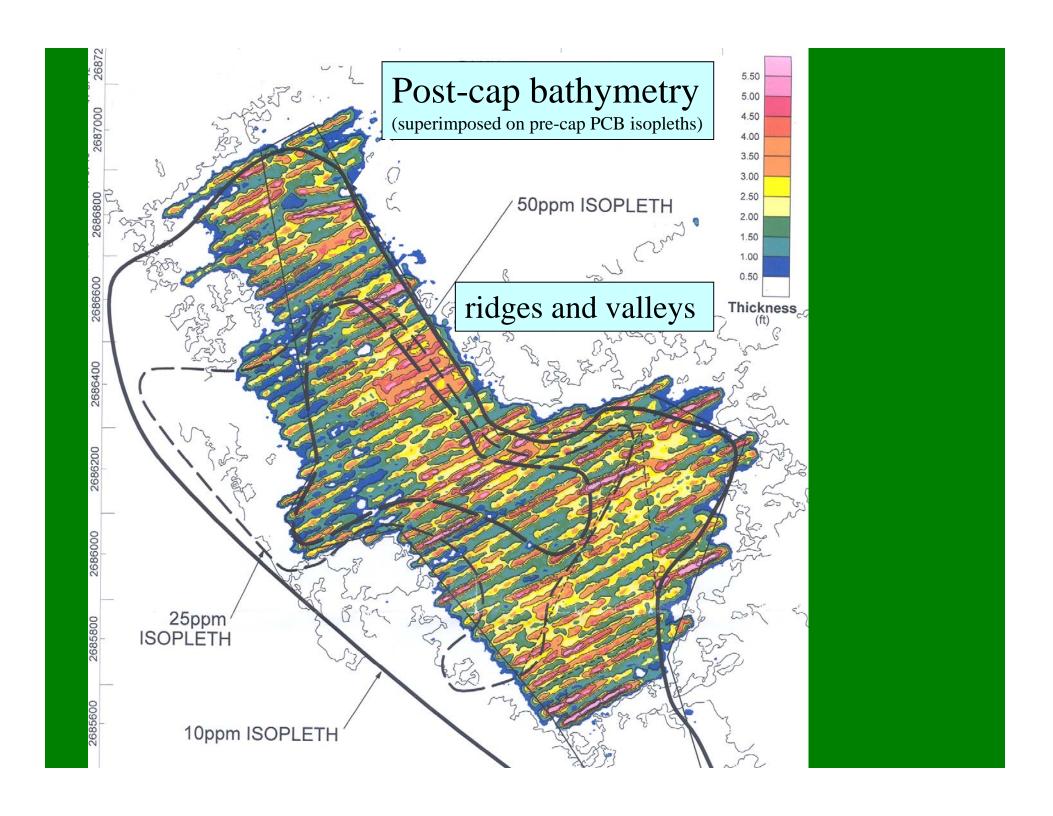








The pilot cap area in context



Three major components of post—cap monitoring:

1. Physical

- how much mixing of the cap and underlying surface occurred?
- how has the thickness of the cap changed over time?
- is the cap losing or gaining sediment (deposition or erosion)?

2. Chemical

- pre-cap verses post-cap surficial PCB levels?
- difference between ridges and valleys?
- are PCBs migrating upward through the cap?

3. Biological

- is post-cap sediment toxicity a concern?
- how long will it take for the cap to recolonize?
- what is the species diversity of the recolonization?
- are shellfish and lobster bioaccumulating PCBs above risk levels?

